

Municipality of Lakeshore – Report to Council

Operations

Capital Projects



To: Mayor & Members of Council
From: Wayne Ormshaw, P. Eng, Division Leader – Capital Projects
Date: February 1, 2024
Subject: Denis St. Pierre Pollution Control Plant Expansion Project Update

Recommendation

This report is for information only.

Background

The Denis St. Pierre Water Pollution Control Plant (the “Plant”) was identified to be nearing hydraulic capacity in the Municipality of Lakeshore’s Water and Wastewater Master Plan Update (completed in May 2018). Based on this, Council approved to undertake the Environmental Assessment (the “EA”) for the proposed expansion of the Plant. The EA was undertaken and completed in May of 2020. The EA confirmed that the Plant would require an increase of the peak operational capacity by approximately 70%.

Detailed design of the plant was completed by Stantec Consulting Ltd.

The expansion of the Plant was publicly tendered under two separate contracts:

1. The Denis St. Pierre Water Pollution Control Plant Expansion; and
2. The Rourke Line Road Reconstruction and Denis St. Pierre Sewer Outfall Project.

At the regular meeting of Council held on September 14, 2021, Council approved the award of The Denis St. Pierre Water Pollution Control Plant Expansion contract to North America Construction (“NAC”) for a total project cost of \$55,181,427.72. This includes \$4,800,000.00 funding set aside for the wastewater component of the Rourke Line Road Reconstruction and Denis St. Pierre Sewer Outfall.

Further, at the regular meeting of Council held on April 26, 2022, Council approved the award of The Rourke Line Road Reconstruction and Denis St. Pierre Sewer Outfall contract to J&J Lepera Infrastructures Inc. for a total project cost of \$7,960,406.99.

Denis St Pierre Pollution Control Plant Expansion Project

The key stages of the Denis St. Pierre Water Pollution Control Plant Expansion contract are outlined below:

1. Notice to Commence:
 - NAC received the Notice to Commence on September 23, 2021.
2. Contract Execution:
 - The contract was officially executed on October 19, 2021.
3. Planning and Procurement:
 - Immediately after contract execution, NAC initiated planning and procurement activities, focusing on suppliers, materials, and equipment.
4. Site Mobilization and Construction:
 - Formal site mobilization and construction commenced on November 10, 2021.
5. Planned Completion Date:
 - A target completion date of August 1, 2023, was established.

In March 2022, NAC faced challenges from three electrical suppliers, who communicated extended manufacturing and delivery times for critical contract items. This delay was attributed to global supply chain issues, notably high demand and scarcity of specialist items. The affected items included:

- Two standby diesel generators for temporary power;
- Electrical Switchgear; and
- Transformer.

Despite exhaustive efforts to expedite delivery, the electrical switchgear and transformers arrived on-site in October 2023, with the standby diesel generators following in December 2023. Subsequently, all items were installed, facilitating the completion of the final construction stages.

With the long-lead electrical items now in place, the contractor anticipates the following completion schedule:

- Achieving full treatment flow capacity by February 29, 2024;
- Full operation (SCADA and integration to existing plant) by March 28, 2024; and
- Remaining site works related to placement of asphalt, exterior restoration and any remaining deficiencies in the spring 2024.

As part of this project, the pumping station at the plant (Pump Station 8) was upgraded to include an additional pump to allow for more flow capacity into the plant through the

surrounding conveyance system, thus opening up areas for growth in and around the plant. Jacobs Solutions Inc. is currently assessing the area and the available capacity these improvements will provide.

A subsequent report will be provided related to the findings in March.

Rourke Line Road Reconstruction and Denis St. Pierre Sewer Outfall Project

This project was substantially performed on May 26, 2023, and transitioned into its maintenance period. The project will be released from its maintenance period on May 26, 2024

Others Consulted

Stantec Consulting Ltd and NAC were consulted during the writing of this report to confirm projected operational timing for the Denis St. Pierre Water Pollution Control Plant Expansion

Jacobs is being consulted related to the assessment of areas that the improvement will provide additional capacity to.

Financial Impacts

There are no financial impacts resulting from this report.

Report Approval Details

Document Title:	Denis St. Pierre Expansion Update.docx
Attachments:	
Final Approval Date:	Feb 9, 2024

This report and all of its attachments were approved and signed as outlined below:

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Submitted by Krystal Kalbol

Approved by Justin Rousseau and Truper McBride